

List of Contents

Volume 25

Number 1

March 1990

Articles

| | |
|---|----|
| NORBERT MÜLLER, JACK B. HARTUNG, ELMAR K. JESSBERGER AND WOLF U. REIMOLD: ^{40}Ar - ^{39}Ar ages of Dellen, Jänisjärvi, and Sääksjärvi impact craters | 1 |
| MICHAEL E. ZOLENSKY, GORDON L. WELLS AND HELEN M. RENDELL: The accumulation rate of meteorite falls at the Earth's surface: The view from Roosevelt County, New Mexico | 11 |
| INGRID D. ROWLAND: A contemporary account of the Ensisheim meteorite, 1492 | 19 |
| CHRISTIAN KOEBERL, WOLF UWE REIMOLD, HANNA E. HORSCH AND ROLAND K. W. MERKLE: New mineralogical and chemical data on the Machinga (L6) chondrite, Malawi | 23 |
| MARK J. CINTALA AND FRIEDRICH HÖRZ: Regolith evolution in the laboratory: Scaling dissimilar comminution experiments | 27 |
| GARY R. HUSS: Meteorite infall as a function of mass: Implications for the accumulation of meteorites on Antarctic ice | 41 |

Note

| | |
|--|----|
| F. KÜNSTLER AND N. T. ARNDT: An improved technique for preparing polished thin sections of stony-iron meteorites | 57 |
|--|----|

| | |
|--|----|
| The Meteoritical Bulletin | 59 |
|--|----|

Book Reviews

| | |
|---|----|
| JOHN T. WASSON: "Astrogeological Events in China" by Xu Daoyi, Zhang Qinwen, Sun Yiyen, Yan Zheng, Chai Zhifang and He Jinwen | 71 |
|---|----|

| | |
|---|----|
| Information for Contributors | 73 |
|---|----|

Volume 25

Number 2

June 1990

Articles

| | |
|--|-----|
| T. J. MCCOY, I. CASANOVA, KLAUS KEIL AND R. WIELER: Classification of four ordinary chondrites from Spain | 77 |
| DAVID C. GOSSELIN AND J. C. LAUL: Chemical characterization of a unique chondrite: Allan Hills 85085 | 81 |
| GARY R. BYERLY, JOSEPH E. HAZEL AND CHARLES McCABE: Discrediting the late Eocene microspherule layer at Cynthia, Mississippi | 89 |
| IAN HALLIDAY, ALAN T. BLACKWELL AND ARTHUR A. GRIFFIN: Evidence for the existence of groups of meteorite-producing asteroidal fragments | 93 |
| ALEX Ruzicka: Deformation and thermal histories of chondrules in the Chainpur (LL3.4) chondrite | 101 |
| S. WEINBRUCH, H. PALME, W. F. MÜLLER AND A. EL GORESY: FeO-rich rims and veins in Allende forsterite: Evidence for high temperature condensation at oxidizing conditions | 115 |

| | |
|--|-----|
| I. CASANOVA, K. KEIL, R. WIELER, A. SAN MIGUEL AND E. A. KING: Origin and history of chondrite regolith, fragmental and impact-melt breccias from Spain | 127 |
| HITOSHI MATSUDA, NOBORU NAKAMURA AND SHINJI NODA: Alkali (Rb/K) abundances in Allende barred-olivine chondrules: Implications for the melting conditions of chondrules | 137 |
| Note | |
| T. J. MCCOY AND KLAUS KEIL: Lake Machattie, a weathered H5 chondrite find from Queensland, Australia | 144 |
| Abstracts from Meteoritika | |
| Book Reviews | |
| ALAN E. RUBIN: "Introduction to Asteroids" by Clifford I. Cunningham | 148 |

Volume 25

Number 3

September 1990

Articles

| | |
|--|-----|
| VIRGIL E. BARNES: Tektite research 1936-1990 | 149 |
| MALCOLM W. WALLACE, VICTOR A. GOSTIN AND REID R. KEAYS: Spherules and shard-like clasts from the late Proterozoic Acraman impact ejecta horizon, South Australia | 161 |
| J. ZHANG, D. B. WILLIAMS, J. I. GOLDSTEIN AND R. S. CLARKE, JR.: Electron microscopy study of the iron meteorite Santa Catharina | 167 |
| JOHN A. RUSSELL: Dissimilarities in Perseid meteoroids | 177 |
| KARI A. KINNUNEN: Lechatelierite inclusions in indochinites and the origin of tektites | 181 |
| ARTHUR W. STRUEMPFLER: Element mobility due to weathering in the L5 Bayard chondrite | 185 |
| EDWARD J. OLSEN, KURT FREDRIKSSON, SUNDAR RAJAN AND ALBERT NOONAN: Chondrule-like objects and brown glasses in howardites | 187 |
| R. LAKOMY: Implications for cratering mechanics from a study of the Footwall Breccia of the Sudbury impact structure, Canada | 195 |
| FRANS J. M. RIETMEIJER: Salts in two chondritic porous interplanetary dust particles | 209 |
| ALAN E. RUBIN AND GREGORY W. KALLEMEYN: Lewis Cliff 85332: A unique carbonaceous chondrite | 215 |
| S. V. S. MURTY AND K. MARTI: Search for solar-type nitrogen in the gas-rich Pesyanoe meteorite | 227 |

Notes

R. R. BROOKS, M. HOASHI, E. FERNANDES DE LIMA, M. L. DOS SANTOS, D. E. RYAN, J. HOLZBECHER,
J. H. JOHNSTON, Y. KAWACHI AND P. P. SAPIERA: The Iguaçu H5 chondrite: A fall from
Paraná State, Brazil 231

AURORA PUN, T. J. MCCOY, KLAUS KEIL AND IVAN E. WILSON: Classification of five new chondrite
finds from Roosevelt County, New Mexico 233

| | |
|--|-----|
| MICHAEL HIGGINS AND LARRY TAIT: A possible new impact structure near Lac de la Presq'ile, Québec, Canada | 235 |
| The Meteoritical Bulletin | 237 |
| Book Reviews | |
| JEFFREY L. WARNER: "Moon Trip" by Bert King | 241 |
| ALAN E. RUBIN: "Proceedings of the Twentieth Lunar and Planetary Science Conference" edited by Virgil L. Sharpton and Graham Ryder | 241 |
| JOHN T. WASSON: "Asteroids II" edited by R. P. Binzel, T. Gehrels and M. S. Matthews | 241 |

Volume 25

Number 4

December 1990

Articles

| | |
|---|-----|
| V. S. SAFRONOV: Problems of origin of asteroids and comets | 243 |
| GRAHAM RYDER: A distinct variant of high-titanium mare basalt from the Van Serg core, Apollo 17 landing site | 249 |
| KLAUS KEIL, A. J. EHLMANN AND RAINER WIELER: The Olton, Texas, H chondrite regolith breccia: Paired with Dimmitt | 259 |
| A. O. NIER AND D. J. SCHLUTTER: Helium and neon isotopes in stratospheric particles | 263 |
| MICHAEL K. WEISBERG, MARTIN PRINZ AND CHERUKUPALEI E. NEHRU: The Bencubbin chondrite breccia and its relationship to CR chondrites and the ALH85085 chondrite | 269 |
| JAMES L. GOODING, KWESI E. AGGREY AND DAVID W. MUENOW: Volatile compounds in shergottite and nakhlite meteorites | 281 |
| FRANÇOIS ROBERT AND JÉRÔME HALBOUT: A numerical model for isotopic patterns from thermal-extraction experiments | 291 |
| IAN M. STEELE: Minor elements in forsterites of Orgueil (C1), Alais (C1) and two interplanetary dust particles compared to C2-C3-UOC forsterites | 301 |
| ROGER H. HEWINS AND PATRICK M. RADOMSKY: Temperature conditions for chondrule formation | 309 |
| G. ANDREHS AND K. ADAM: The Trebbin chondrite | 319 |
| EUGENE JAROSEWICH: Chemical analyses of meteorites: A compilation of stony and iron meteorite analyses | 323 |
| IAN HALLIDAY AND BRUCE A. MCINTOSH: Orbit of the Murchison meteorite | 339 |
| DAVID A. J. SEARGENT: The Murchison meteorite: Circumstances of its fall | 341 |

Notes

| | |
|---|-----|
| MARGARET WALLACE AND ALLAN PRING: The Loxton meteorite: A new olivine-bronzite chondrite from South Australia | 343 |
| G. W. REED, JR. AND S. JOVANOVIC: Isotopic Hg in an Allende carbon-rich residue | 345 |

| | |
|--|-----|
| Abstracts of the 53rd Meeting of the Meteoritical Society | 347 |
| Meteoritical Society Business | 425 |
| Book Reviews | |
| THOMAS J. BERNATOWICZ: "The New Solar System" edited by J. Kelly Beatty and Andrew Chaikin | 426 |
| Annual Index | 427 |

